# AKAI SERVICE MANUAL



MIDI PRODUCTION CENTER

MODEL MPC2000

### **★** SAFETY INSTRUCTIONS

#### PRECAUTIONS DURING SERVICING

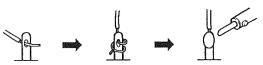
- Parts identified by the \$\Delta\$ (\*) symbol are critical for safety. Replace them only with the parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- Use specified insulating materials for hazardous live parts.

Note especially:

- 1) Insulation Tape
- 2) PVC tubing
- 3) Spacers (insulating barriers)
- 4) Insulation sheets for transistors
- 5) Plastic screws for fixing micro switches
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



- Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

#### SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

# **★** INFORMATIONS

#### SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations
A	U.S.A
В	U.K
[C]	Canada
	Europe (except U.K)
J	Japan
S	Australia
V	Germany
U	Universal Area
Y*	Custom version

# \* SPECIFICATIONS

Sound generator	Stereo output 1/4 inch stereo phone jack x 2,
Sampling rate 44.1 kHz (20 Hz	to 20 kHz) unbalanced
Sampling capacity 2 MB standard 32 MB) (21,9 st	
or 10.9 second	
Data format 16 bit linear	Assignable mix out
Dynamic filtering 12 dB/oct dynar	
low pass filter p	ar voice unbalanced
Maximum sounds in	Output level+11 dBu/100 ohms
memory 128	Maximum
Number of sound	output level +17 dBu/100 ohms
program 24	Headphone output 1/4 inch stereo phone jack x 1,
Sound assignments	Output level 200 mW/32 ohms
per program 64	MIDI inputs5 pin-DIN x 2 (mergeable)
Simultaneous voices 32	MIDI outputs 5 pin-DIN x 2 (independent)
	SCSI port
Sequencer	
Maximum notes 100,000	General
Resolution 96 parts per 1/4	-note (ppq) Display 248 x 64 dots graphic LCD
Sequence	Disk drive 3.5 inch 2HD/2DD
Tracks per sequence 64	Expantion
MIDI output channels 32 (16 channels	x 2 output memory slots 2 (72 pin SIMM, 70 ns)
ports)	Dimensions 405 (W) x 126 (H) x 328 (D) mr
Song mode 20 songs, 250	
Drum pads 16 (with velocit	& pressure Power requirements AC 100 V, 50/60 Hz for Japan
sensitive)	AC 120 V, 60 Hz for U.S.A and
Drum pad banks 4	Canada
Sync mode MIDI clock with	S.P.P., MTC, AC 220-240 V, 50 Hz for Europ
MMC, SMPTE	option). Power consumption 23 W
SMPTE frame	ates supported 13 W (without optional board)
are 24, 25, 30	nd 30 drops
(29.97)	Optional boards
	EB16 Multi effect processor board
Rear panel IN/OUT	FMX008M 8 MB flash ROM board
Record input 1/4 inch stereo	
balanced	IB-M20T SMPTE board
Sensitivity40 dBu/39 kol	ms (REC VR
max.)	Standard accessories
Maximum input level +10 dBu	Power cable 1
Digital sampling input RCA-pin jack x	, S/PDIF Floppy disk 1 (OS disk)
(option)	3 (Sound library disk)
Digital master output RCA-pin jack x (option)	, S/PDIF Operator's manual 1

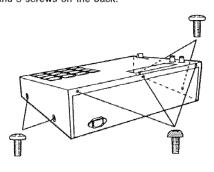
0 dBu=0.775 VRMS

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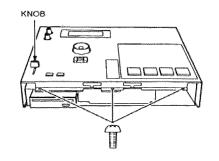
## I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.

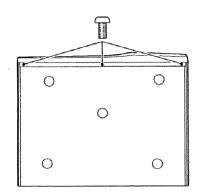
 Remove the 4 screws on both the left and right sides and 3 screws on the back.



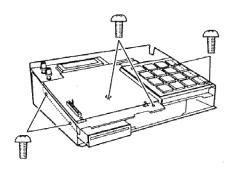
 Remove the 3 screws which secure the UPPER PANEL.
 Next, extract the NOTE VARIATION knob and remove the UPPER PANEL.



Remove the 3 screws on the bottom. Remove the FRONT PANEL by pulling it in the forward direction.



 Remove the 4 screws on both the left and right sides and 2 screws on the sub chassis.



Disconnect the P2 connector on the CPU PCB then remove the sub chassis with the OPERATION PCB and PAD block attached.

# II. PRINCIPAL PARTS LOCATION

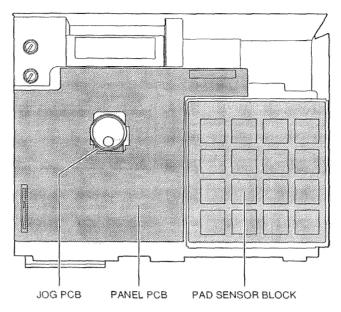


Fig. 2-1 Upper view (1)

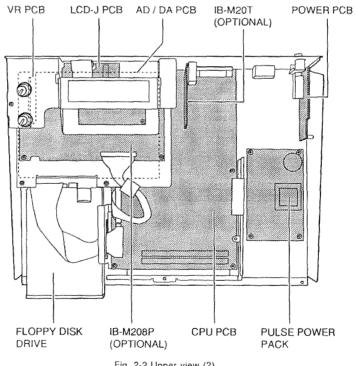


Fig. 2-2 Upper view (2)

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#### III. SUPPLEMENTARY INFURMATION

#### TEST MODE

\* This test mode is used for the inspection of the unit. To check the unit, proceed as follows.

#### Engeging the test mode.

- Turn the power on and insert the OS disk according to the LCD indication. After the system is bootup, press the "MIXER (7)" button while pressing the "SHIFT" button.
- 2) Press the "OPEN WINDOW" button.
- Press the "0" button while pressing the "SHIFT" button.
   The "flash file memory test" screen appears when the test mode is engaged.
- To disengage the test mode, press the "MAIN SCREEN" button or turn the power of the unit off.
- NOTE: Only the [WAVE MEMORY TEST] and [FLASH FILE MEMORY TEST] modes can be proceed sequently.
  - Once you engage the [PAD TEST] [REC OUT (8 PARA)] or [SMPTE TEST] mode in the test mode, it is not possible to go to the other test mode directly. In this case, press the "MAIN SCREEN" button and re-engage the test mode again to go to the other test modes.
  - \*\* The test mode may be different according to the version of the software.

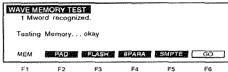
#### 3-1. Wave memory test

 Engage the test mode and press the "F1" button. The following messages will be displayed.

NOTE: All wave memory (DRAM) will be lost when the F1" button is pressed.



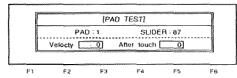
Press the "F6" (GO) button. The following messages will be displayed after the display stops incrementing.



This means the function of the unit is operating properly.

#### 3-2. Pad test

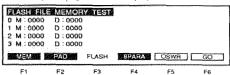
 Engage the test mode and press the "F2" button. The following messages will be displayed.



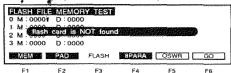
 Press any of the 16 pad buttons. The pad number that you pressed will be shown in the display as well as the velocity and after touch conditions are displayed momentarily.

#### 3-3. Flash file memory test

 Engage the test mode and press the "F3" button. The following messages will be displayed.



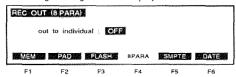
 Press the "F6" (GO) button. The following messages will be displayed if the flash memory is not installed.



NOTE: All flash file memory (F-ROM) will be lost when this memory test is performed.

#### 3-4. REC out (8PARA)

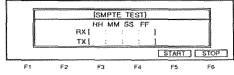
 Engage the test mode and press the "F4" button. The following messages will be displayed.



 If the IB-M208P (optional 8PARA/DIO PCB) is connected, " out to individual:" turns on when the "DATA" knob is turned.

#### 3-5. SMPTE test

 Engage the test mode and press the "F1" button then press the "F5" button. The following messages will be displayed.



 Press the "F5" (START) button if the I8-M20T (optional SMPTE PCB) is connected. TX starts incrementing and count up the time until the F6 (STOP) button is pressed.

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#### IV. PARTS LIST

#### **ATTENTION**

- When placing an order for parts, be sure to list the Part No., Model No. and the description of each part.
   Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering.

  If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

#### HOW TO USE THIS PARTS LIST

- This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
  - a) Mechanism Block

#### 2. HEAD BASE BLOCK

Ref. No. Part. No.

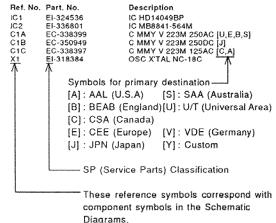
1 BH-T2023A320A HEAD BASE BLOCK
2 HP-H2206A010A HEAD R/P PR4-8FU C
3 ZS-477876 PAN20×03STL CMT
4 ZS-536488 BID20×08STL CMT
5 ZG-402895 SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

#### 2. MAIN PC BOARD



The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

#### WARNING

A INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

#### **AVERTISSEMENT**

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

#### 1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	B8-810498J	FDD FD-235HF-7549
2	ED-388539J	D LED GL-3HD43
3	ED-810393J	D LED GL-3KG8
4	ED-428162N	D SCHOTTKY 1530-E T26
5	ED-389834J	D SILICON DS135E-FB2 F12 100/1
6 7	ED-344280	D SILICON H GMA-01-FY2 F05 D ZENER H HZSS81 T26
8	ED-412105N A EF-346880	FUSE ICP-F16 50V 0.6A
9	△ EF-376821	FUSE ICP-N15 50V 0.6A
10	△ EF-373142	FUSE ICP-N25 50V 1.0A
11	∆ EF-373143	FUSE ICP-N38 50V 1.5A
12	El-810412J	ICAK5340-VS
13	EI-429988J	IC AV9173-01-CN8 T
14	El-410414J1	IC CS8402A-CP
1.5	El-432815J	IC E28F016SA-100
16	El-810380J	IC HD74AC00FP
17	El-430936J El-396536J	IC HD74AC04FP IC HD74AC138P
18 19	El-430943J	IC HD74AC74FP
20	EI-387934J	IC HD74HC04P
21	El-394832J	IC HD74HC123AP
22	EI-386289J	IC HD74HC138P
23	EI-393696J	IC HD74HC154P
24	El-810386J	IC HD74HC174FP
25	EI-388707J	IC HD74HC244P
26	El-810382J	IC HD74HC259FP
27 28	EI-810268J EI-401217J	IC HD74HC273FP IC HD74HC32FP
29	El-810383J	IC HD74HC4060FP
30	El-388567J	IC HD74HC573P
31	EI-810269J	IC HD74HC595FP
32	EI-393696J	IC HD74HC86P
33	EI-810385J	IC HM5118160ALTT-7
34	El-810153J	IC HM514260CLTT-7
35 36	El-430810J El-413120J	IC ICS2008V IC L7A1045 L6028 DSP-A
37	El-810047J	IC MB89352A-PFQ QFTY
38	El-401213J	IC MB89371A-PF-G-BND QF
39	El-810328J	IC MC74AC257M
40	El-810646J	IC MC74HCU04AN
41	El-430680J	IC M51957AL
42	El-430681J	IC M51958AL
43 44	EI-353227 EI-393325N	IC M5216L IC M5218AP
45	EI-348785	IC M5220L
46	EI-360043	IC M5220P
47	El-377047	IC M5229FP
48	EI-362587J1	IC MS238AL
49	El-377191	IC NJM5532D-D
50	El-810613J	IC PALCE16V8Q-15PC L4013C
51 52	El-810379J	IC PALCE20V8Q-15PC L4013A IC PALCE20V8Q-15PC L4013B
52 53	EI-810384J EI-430673J	IC PALCE20V8Q-15PC L6039A
50 54	EI-412279J1	IC PCM69AP-4
55	El-410389J	IC PQ30RV:
56	El-376741J1	ICTG74HC244AF
57	El-381290J1	ICTC74HC245AF
58	El-377101	IC UPC7805HF
59	EI-430684J	IC UPD70236AGD-16-5BB
60	El-396531J	IC UPD72066GF-3B9
61 62	El-405572J El-379997J	IC UPD78C10AGQ-36 IC YM3623B
63	El-354123	OSC CE CSA120MTZ 12.000000MHZ
64	El-414959J	OSC X'TALAT-51 11.289600MHZ
65	El-374176	OSC X'TAL AT-51 16.9344MHZ
66	El-396541J	OSC X'TAL HC-49/U 32.000000MHZ
67	EJ-357159	PHONE J 2P HLJ0520-110 WNUT
68	EJ-354105	PHONE J 2P HLJ0520-110 6.3
69	EJ-810705J	PHONE J 3P HLJ0544-010W/N,W6,3

Ref. No.	Part No.	Description
70	EJ-810706J	PHONE J 3P HLJ0544-110W/N,W6,3
71	EJ-810624J	PHONE J 3P HTJ-06411D 6.3
72	EO-345990N	COIL FIX 1 EL0606RA T05 470J
73	EO-414952J	TRANS PULSE CITO705D-35101
74	EQ-348929	RELAY SIG GSA-237P 2TR 12V
75	ES-403377J	SW ROTARY ENCODER SRGPHJ
76	ES-411687N	SW TACT EVQ PAE 05R
77	ES-415015J	SW TACT SKGEAD
78	ET-430926J	DETECTOR PC400
79	ET-366753N	TROTA114ES TOS
80	ET-386938N	TRIDTC123ES T05
81	ET-349693	TR 2SA1948 F05
82	ET-370013	TR 2SA874 O.R
83	EV-810416J	VR ROTARY RK0971220 L25 B103X2
84	EV-810417J	VR ROTARY RK0971220 L25 C503X2
85	EV-810633J	VR SLIDE RS45112 L15 B103X2

#### 2. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1 2	BA-L4013A020 BA-L4013A030	PC CPU BLK PC(#) MULTI BLK
3	BA-L4013A040	PC(#) ADA BLK

PC (#) ADA BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- ADA P.C. BOARD
- VR P.C. BOARD
- · LCD-J P.C. BOARD

PC (#) MULTI BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- PANEL P.C. BOARD
- JOG P.C. BOARD
   POWER P.C. BOARD

#### 3. CPU P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-344280	D SILICON H GMA-01-FY2 F05
D2	ED-428162N	D SCHOTTKY 1S30-E T26
D3	ED-344280	D SILICON H GMA-01-FY2 F05
D4	ED-389834J	D SILICON DS135E-FB2 F12 100/1
FL1	EH-410420J	FILTER EMI DSS306-938101MT05
FL2	EH-410420J	FILTER EMI DSS306-93B101MT05
FL3	EH-410420J	FILTER EMI DSS306-938101MT05
FL4	EH-410420J	FILTER EMI DSS306-938101MT05
FL5	EH-410420J	FILTER EMI DSS306-938101MT05
FL6	EH-410420J	FILTER EMI DSS306-938101MT05
FL7	EH-410420J	FILTER EMI DSS306-93B101MT05
FL8	EH-410420J	FILTER EMI OSS306-938101MT05
FL11	EH-410420J	FILTER EMI DSS306-93B101MT05
FL12	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL13	EH-413150J	FILTER EMI BLO3RN2-R62T4T05
FL14	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL15	EH-410420J	FILTER EMI DSS306-93B101MT05
FL16	EH-364254	FERRITE BEAD BLOSRNS-R62
FL17	EH-413150J	FILTER EMI BL03RN2-R62T4T05
FL18	EH-413150J	FILTER EMI BLOSRN2-R62T4 T05
FL19	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL20	EH-413150J	FILTER EMI BLO3RN2-R62T4T05
FL21	EH-413150J	FILTER EMI BLOSRN2-R62T4-T05
FL22	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL23	EH-413150J	FILTER EMI BLOSRN2-R62T4 T05
FL24	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL25	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05
FL25	EH-413150J	FILTER EMI BLO3RN2-R62T4T05
FL26	EH-413150J	FILTER EMI BLOGRN2-R62T4 T05
FL27	EH-413150J	FILTER EMI BLOGRN2-R62T4 TOS
FL28	EH-413150J	FILTER EMI BL03RN2-R62T4T05

Fig.	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Fig. 10	FL29	EH-413150J	FILTER EMI BLOSRN2-R62T4 Tos	FS1	∆ EF-346880	FUSE ICP-F15 50V 0.6A
F-371-142   FUSE   ICP NESS BV 1.0A	FL30	EH-413150J	FILTER EMI BLO3RN2-R62T4 T05			
Bit   BH-387688   COMP R RRC1688 1032   IG 2	FS1	△ EF-373142	FUSE ICP-N25 50V 1.0A	101		
B2	181	EH-357538	COMP R RKC1/885 103J	IC2		
183	182	EH-384817J	COMP R RKC1/888 102J			
19.4	183	EH-408860J	COMP R RKC1/889 111,J			
195	B4	EH-408860J	COMP R RKC1/889 111J			
C12	185	EH-810378J	COMP R RGSD10L503G 503G			
IC3	IC1	El-430684J	IC UPD70236AGD-16-5BB			
10.1	IC2	EI-430680J		ì		
Getail		El-381290J1				
Color	IC4	EI-810379J	IC PALCE20VBQ-15PC L4013A			
10.13	IC5			Y .		
ICA						
ICO   E   E   E   E   E   E   E   E   E						
Color   E-8101531   C-MM514290CLTT-7				i		
C101						
C1724						
C12-0    C						
					_	
CAMPATCASSANT-SOCK   CAMPATC	140166.11	Cr. b. ready 15				
BLAW ROM    FLA 00213J   CM 989971A PF-G-BND OF   Ref	IC12-R	El-397343 I		i i		
Fig. 1	170 140 150	21:00/0400		1		
C1-6  E1-401921/J   IC H074HC259FP	IC13	El-4012131				
C16				8		
CH   CH   CH   CH   CH   CH   CH   CH						
C1						
ICH				AAS03	EVV-810415J	WIHE ASSY L4013 W203 20P
C-20						
C21				6 110 1		
C22				5. VM F	C. BOARD	
C22						
C22	IC21	EI-429988J		Ref. No.	Part No.	Description
C24	IC22	El-376741J1	IC TC74HC244AF	VR201	EV-810416J	VR ROTARY RK0971220 L25 B103X2
C25	łC23	El-810383J	IC HD74HC4060FP	VR202		
C26	IC24	EI-430673J	IC PALCE20V8Q-15PC L6039A			The state of the s
C27	IC25	EI-810613J	IC PALCE16V8Q-15PC L4013C	1		
C27				-		
C28	IC27		IC HD74HC595FP	6. LCD	-J P.C. BOAR	D
C29	IC28		IC HD74HC595FP	1		<del>-</del>
C31				Ref. No.	Part No	Description
C31	IC30					o-sopoun
C32				P3	F.I-810418.I	SOCKET SUD19S-1 19P
C33						
C34				1	C, 11.010-100	**************************************
C35		_				
Ji						
J3				7 DAN	EL DC BOAD	en.
Best				1. 1 201	LL F.O. DOM	10
Jacobs   J				0.4 11	5	- 1 s
J5				Het, No.	Part No.	Description
Description					#n a	W 1 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Description						
PH1   ET-430926J   DETECTOR PC400   D4   ED-810393J   D LED GL-3KG8				1		
PH2						
P2				1		
P3				3		
P5						
P6						D LED GL-3KG8
Proceed   Proceedings   Process				6		
Who						D LED GL-3KG8
Wino				D10	ED-810393J	D LED GL-3KG8
X1				D11	ED-810393J	
D13				D12	ED-344280	D SILICON H GMA-01-FY2 F05
## ADA P.C. BOARD  ## BD-344280  ## D15	XS.	El-414959J	OSC X'TALAT-51 11,289600MHZ	D13		
4. ADA P.C. BOARD         D15         ED-344280         D SILICON H GMA-01-FY2 F05           Ref. No.         Part No.         Description         D17         ED-344280         D SILICON H GMA-01-FY2 F05           D5         ED-344280         D SILICON H GMA-01-FY2 F05         D18         ED-412105N         D ZENER H H ZSSB1 T26           D6         ED-344280         D SILICON H GMA-01-FY2 F05         D20         ED-412105N         D ZENER H H ZSSB1 T26           D6         ED-389834J         D SILICON DS135E-F92 F12 100/1         D21         ED-344280         D SILICON H GMA-01-FY2 F05           FL4         EH-410420J         FILTER EMI DSS306-93B101MT05         D22         ED-412105N         D ZENER H H ZSSB1 T26           FL5         EH-410420J         FILTER EMI DSS306-93B101MT05         D22         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-93B101MT05         D23         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-93B101MT05         D24         ED-412105N         D ZENER H HZSSB1 T26           FR1         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D25         ED-344280         D SILICON H GMA-01-FY2 F05           FR2         ER-200746         R FUSE H ERD2FC				D14		
A. ADA P.C. BOARD         D16         ED-344280         D SILICON H GMA-01-FY2 F05           Ref. No.         Part No.         Description         D18         ED-344280         D SILICON H GMA-01-FY2 F05           D5         ED-344280         D SILICON H GMA-01-FY2 F05         D20         ED-344280         D SILICON H GMA-01-FY2 F05           D6         ED-389834J         D SILICON DS135E-F82 F12 100/1         D21         ED-344280         D SILICON H GMA-01-FY2 F05           FL4         EH-410420J         FILTER EMI DSS306-938101 MT05         D22         ED-412105N         D ZENER H HZSSB1 T26           FL5         EH-410420J         FILTER EMI DSS306-938101 MT05         D23         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-938101 MT05         D23         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-938101 MT05         D24         ED-344280         D SILICON H GMA-01-FY2 F05           FB1         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D25         ED-344280         D SILICON H GMA-01-FY2 F05           FR2         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D26         ED-344280         D SILICON H GMA-01-FY2 F05						
Ref. No.         Part No.         Description         D17         ED-344280         D SILICON H GMA-01-FY2 F05           D5         ED-344280         D SILICON H GMA-01-FY2 F05         D19         ED-344280         D SILICON H GMA-01-FY2 F05           D6         ED-344280         D SILICON DS 135E-F82 F12 100/1         D21         ED-344280         D SILICON H GMA-01-FY2 F05           D6         ED-3898934J         D SILICON DS 135E-F82 F12 100/1         D21         ED-344280         D SILICON H GMA-01-FY2 F05           FL4         EH-410420J         FILTER EMI DSS306-998101 MT05         D22         ED-412105N         D ZENER H HZSSB1 T26           FL5         EH-410420J         FILTER EMI DSS306-938101 MT05         D23         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-938101 MT05         D24         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-938101 MT05         D24         ED-412105N         D ZENER H HZSSB1 T26           FR1         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D25         ED-344280         D SILICON H GMA-01-FY2 F05           FR2         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D26         ED-344280         D SILICON H GMA-01-FY2 F05	4. ADA	P.C. BOARD		1		
Date						
D19   ED-344280   D SILICON H GMA-01-FY2 F05   D20   ED-341280   D SILICON H GMA-01-FY2 F05   D20   ED-412105N   D ZENER H HZSSB1 T26   D21   ED-344280   D SILICON H GMA-01-FY2 F05   ED-349834   D SILICON DS135E-F82 F12 100/1   D21   ED-344280   D SILICON H GMA-01-FY2 F05   ED-412105N   D ZENER H HZSSB1 T26   ED-412105N   D ZENER H HZSSB1 T26   ED-412105N   D ZENER H HZSSB1 T26   ED-344280   D SILICON H GMA-01-FY2 F05   ED-344280   D SILICON H GMA-01-FY2 F05   ED-412105N   D ZENER H HZSSB1 T26   ED-412105N   D ZENER H ENDZFC T/4W T000G   D25   ED-344280   D SILICON H GMA-01-FY2 F05   ED-3442	Ret. No.	Part No.	Description			
D5         ED-344280         D SILICON H GMA-01-FY2 F0S         D20         ED-344280         D ZENER H HZSSB1 T26           D6         ED-389834J         D SILICON DS135E-FB2 F12 100/1         D21         ED-344280         D SILICON H GMA-01-FY2 F0S           FL4         EH-410420J         FILTER EMI DSS306-93B101MT05         D22         ED-412105N         D ZENER H HZSSB1 T26           FL5         EH-410420J         FILTER EMI DSS306-93B101MT05         D23         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-93B101MT05         D24         ED-412105N         D ZENER H HZSSB1 T26           FR1         ER-200746         FUSE H ERD2FC 1/4W 1000G         D25         ED-344280         D SILICON H GMA-01-FY2 F05           FR2         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D26         ED-344280         D SILICON H GMA-01-FY2 F05			•	E		
D6         ED-389834J         D SILICON DS135E-F82 F12 100/1         D21         ED-344280         D SILICON H GMA-01-FY2 F05           FL4         EH-410420J         FILTER EMI DSS306-93B101MT05         D22         ED-412105N         D ZENER H HZS581 T26           FL5         EH-410420J         FILTER EMI DSS306-93B101MT05         D23         ED-344280         D SILICON H GMA-01-FY2 F05           FL6         EH-410420J         FILTER EMI DSS306-93B101MT05         D24         ED-412105N         D ZENER H HZS581 T26           FR1         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D25         ED-344280         D SILICON H GMA-01-FY2 F05           FR2         ER-200746         R FUSE H ERD2FC 1/4W 1000G         D26         ED-344280         D SILICON H GMA-01-FY2 F05	Ds	ED-344280	0 SILICON H GMA-01-FY2 F0s			
FL4 EH-410420J FILTER EMI DSS306-93B101MT05 D22 ED-412105N D ZENER H HZSSB1 T26 FL5 EH-410420J FILTER EMI DSS306-93B101MT05 D23 ED-344280 D SILICON H GMA-01-FY2 F05 FL6 EH-410420J FILTER EMI DSS306-93B101MT05 D24 ED-412105N D ZENER H HZSSB1 T26 FR1 ER-200746 R FUSE H ERD2FC 1/4W 1000G D25 ED-344280 D SILICON H GMA-01-FY2 F05 FR2 ER-200746 R FUSE H ERD2FC 1/4W 1000G D26 ED-344280 D SILICON H GMA-01-FY2 F05						
FLS EH-410420J FILTER EMI DSS306-93B101MT05 D23 ED-344280 D SILICON H GMA-01-FY2 F05 FL6 EH-410420J FILTER EMI DSS306-93B101MT05 D24 ED-412105N D ZENER H HZSSB1 T26 FR1 ER-200746 R FUSE H ERD2FC 1/4W 1000G D25 ED-344280 D SILICON H GMA-01-FY2 F05 FR2 ER-200746 R FUSE H ERD2FC 1/4W 1000G D26 ED-344280 D SILICON H GMA-01-FY2 F05				1		
FL6 EH-410420J FILTER EMI DSS306-93B101MT05 D24 ED-412105N D ZENER H HZSSB1 T26 FR1 ER-200746 R FUSE H ERD2FC 1/4W 1000G D25 ED-344280 D SILICON H GMA-01-FY2 F05 FR2 ER-200746 R FUSE H ERD2FC 1/4W 1000G D26 ED-344280 D SILICON H GMA-01-FY2 F05						
FR1						
FR2 ER-200746 R FUSE H ERD2FC 1/4W 1000G D26 ED-344280 D SILICON H GMA-01-FY2 F05						
				· ·		
ED-344280 DISICION HIGHARIUM DZ/ ED-344280 DISICION HIGHARIUM DZ/					Total Control of the	
	rma.	en-wujajyn	ULDOC A LICE ENDSECA 1/4/A10H0Q	027	ED-344280	U SILICON H GMA-01-FY2 F05

Ret, No.	Part No.	Description
D28	ED-344280	D SILICON H GMA-01-FY2 F05
D29	ED-344280	D SILICON H GMA-01-FY2 F05
D30	ED-344280	D SILICON H GMA-01-FY2 F05
D31		D SILICON H GMA-01-FY2 F05
D35	ED-344280	D SILICON H GMA-01-FY2 F0S
D33	ED-344280	D SILICON H GMA-01-FY2 F05
D34	ED-344280	D SILICON H GMA-01-FY2 F05
D35	ED-344280	D SILICON H GMA-01-FY2 F05
036	ED-344280	D SILICON H GMA-01-FY2 F05
D37 D38	ED-344280	D SILICON H GMA-01-FY2 F05 D SILICON H GMA-01-FY2 F05
D39	ED-344280 ED-344280	D SILICON H GMA-01-F72 F05
D40	ED-344280	D SILICON H GMA-01-FY2 F05
D41	ED-344280	D SILICON H GMA-01-FY2 F05
181	EH-349374	COMP R RKC1/8B8 472J
182	EH-349374	COMP R RKC1/8B8 472J
IC1	El-405672J	IC UPD78C10AGQ-36
ICS	El-386289J	IC HD74HC138P
IC3	El-388567J	IC HD74HC573P
IC4-A	El-810630J	ICAM27C256 MPC2000 V1.0-OP
IC4-B	EI-397343J	[PROGRAM ROM] ICAM27C256-150DC
104-0	Ct-38/3434	IBLANK ROMI
iCs	EI-387934J	IC HD74HC04P
IC6	El-362587J1	IC M5238AL
IC7	EI-362587J1	IC M5238AL
P305	EJ-379603	PLUG 20FR-ST
SW1	ES-411687N	SW TACT EVQ PAE 05R
SW2	ES-411687N	SW TACT EVQ PAE 05R
SW3	ES-411687N	SW TACT EVQ PAE 05FI
SW4	ES-411687N	SW TACT EVQ PAE 05R
SW5	ES-411687N	SW TAGT EVQ PAE 05R
SW6	ES-411687N	SW TACT EVO PAE OSR
SW7 SW8	ES-411687N	SW TACT EVQ PAE 05R SW TACT EVQ PAE 05R
SW9	ES-411687N ES-411687N	SW TACT EVQ PAE 05R
SW10	ES-411687N	SW TACT EVQ PAE 05R
SW11	ES-411687N	SW TACT EVQ PAE 05R
SW12	ES-411687N	SW TACT EVQ PAE 05R
SW13	ES-411687N	SW TACT EVQ PAE 05R
SW14	ES-411687N	SW TACT EVO PAE 05R
SW15	ES-411687N	SW TACT EVQ PAE 05R
SW16	ES-411687N	SW TACT EVO PAE 05R
SW17	ES-411687N	SW TACT EVO PAE 05R
SW18 SW19	ES-411687N ES-411687N	SW TACT EVQ PAE 05R SW TACT EVQ PAE 05R
SW20	ES-411687N	SW TACT EVQ PAE 05R
SW21	ES-411687N	SW TACT EVQ PAE 05R
SW22	ES-415015J	SW TACT SKQEAD
SW23	ES-411687N	SW TACT EVQ PAE 05R
SW24	ES-411687N	SW TACT EVO PAE 05R
SW25	ES-411687N	SW TACT EVQ PAE 05R
SW26	ES-411687N	SW TACT EVQ PAE 05R
SW27	ES-411687N	SWTACT EVQ PAE 05R
SW28	ES-415015J	SW TACT SKOEAD
SW29	ES-415015J	SW TACT SKOEAD
SW30	ES-415015J	SW TACT SKQEAD SW TACT SKQEAD
SW31 SW32	ES-41501\$J ES-411687N	SW TACT EVO PAE 05R
SW33	ES-411687N	SW TACT EVO PAE 05R
SW34	ES-411687N	SW TACT EVQ PAE 05R
SW35	ES-411687N	SW TACT EVQ PAE 05R
SW36	ES-411687N	SW TACT EVO PAE 05R
SW37	ES-411687N	SW TACT EVO PAE DSR
SW38	ES-411687N	SW TACT EVQ PAE 05R
SW39	ES-411687N	SW TACT EVO PAE 05R
SW40	ES-411687N	SW TACT EVO PAE 05R
SW41	ES-415015J	SW TACT SKQEAD
VR1	EV-810633J	VR SLIDE RS45112 L15 B103X2
W304	EW-810396J	WIRE ASSY L4013 W304 20P
Χı	El-354123	OSC CE CSA120MTZ 12.000000MHZ

#### 8. JOG P.C. BOARD

Ref. No.	Part No.	Description
SW302	ES-403377J	SW ROTARY ENCODER SRGPHJ

#### 9. POWER P.C. BOARD

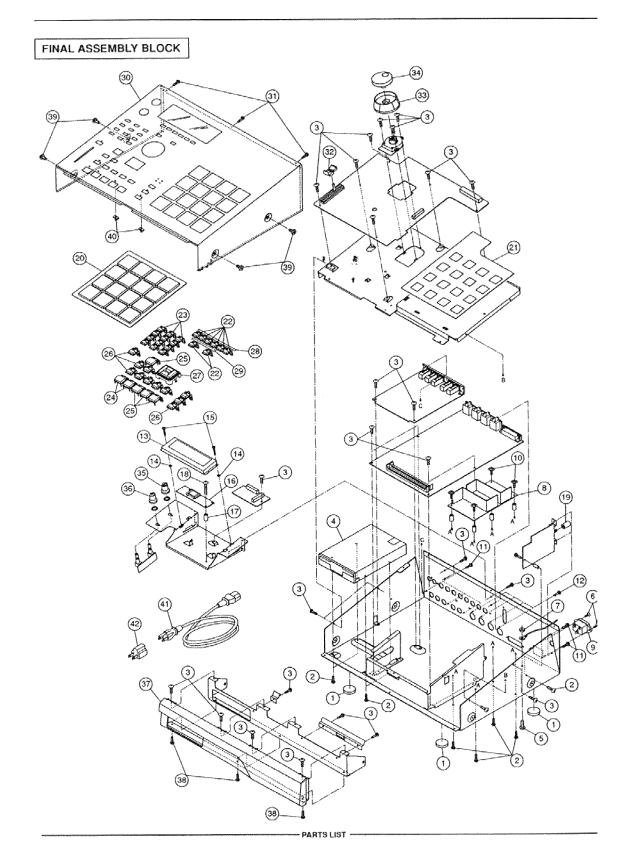
Ref, No.	Part No.	Description
C301	∆ EC-427562J	C MMY V CUT MKP3362 103M 275AC
C302	♠ EC-425606J	C MMY V CUT MMRC 683M 275AC
C307	△ EC-427562J	C MMY V GUT MKP3362 103M 275AC
FL301	∆ EO-389172J	COIL LF LF-4N 502
SW301	∆ ES-430685J1	SW PUSH SDDF3A 02-1

#### 10. FINAL ASSEMBLY BLOCK

Rel. No.	Part No.	Description
t	SA-810344J	F001
2	ZS-379405N	BID30X06STL CMT (SG)
3	ZS-320906	ST BR30X06STL CMT
4	88-810498J	FDD FD-235HF-7549
5	ZS-322570	ST BID40X08STL NI3
6	ZS-376875	BT CTS30X08STL BNI
7	ZW-413267	N FRANGE 40STL CMT
8	∆ BP-810446J	SW REGULATOR SNP-9541
9	ΔEJ-358632J2	SOCKET INLET SOT-16 3P
10	ZS-428277J	PAN30X06STL CMT POLY WAVE
11	ZS-345272	ST BR30X06STL BNI
12	ZS-350934	PT BR30X08STL BNI
13	EM-810407J	IND LCD GMV24160AFTW
14	ZW-810347J	SPACER LCD
15	ZS-810640J	8T PAN17X05STL CMT PS3
16	BA-810408J	INVERSEUR 13585A-CFL-INV
17	ZW-810346J	PLASTIC SPACER
18	ZS-400878J	ST BR30X15STL CMT
19	SB-810525J	BUTTON POWER
50	SE-376331	PAD
21	BA-379695J1	PC PAD SENSOR
22	SB-429685J	BUTTON PUSH(B) [WHITE]
53	SB-810362J	BUTTON PUSH(B)-2 [BLUE]
24	SB-430327J	BUTTON PUSH B(2) [RED]
25	SB-810359J	BUTTON PUSH B(3) (WHITE)
26	SB-810360J	BUTTON PUSH C-3 [WHITE]
27	SB-413601J1	BUTTON CURSOR
28	SE-810673J	SPACER BUTTONPUSHA
29	SE-810674J	SPACER BUTTONPUSH B
30	SP-810424J	PANEL TOP MPC2000
31	ZS-331182	BT BID30X08STL BNI
32	SK-810361J	KNOB SLIDE (B)
33	SK-810363J	KNOB SHUTTLE(F)
34	SK-810364J	KNOB JOG(F)
35	SK-411144J	KNOB VOL PART(1) [WHITE]
36	SK-411147J	KNOB VOL PART(2) [RED]
37	BD-810348J	PANEL FRONT
38	ZS-348375	ST BR30X08STL CMT
39	ZS-322570	ST BID40X08STL NI3
40	SE-810353J	LENSILED
41-A	∆ EW-380905J	AC CORD 250S KP300 KS16A H B J [J]
41-B	Δ EW-368420J1	AC CORD200SKP30KS16 BAC [A]
41-C	∆ EW-410608J	AC CORD 250S KP4819D KS31A B E [E,V]
41-0	∆ EW-419170J	AC COROZOOS KP610 KS31A B [8]
42	∆ EJ-405424J	PLUG ADAPTOR KPR-25

#### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.



#### 11. 8PARA/DIO (IB-M208P OPTIONAL P.C. BOARD)

Ref.No.	Part No.	Description
FL501	EH-410420J	FILTER EMI DSS306-938101MT05
FL506	EH-410420J	FILTER EMI DSS306-938101MT05
FL507	EH-410420J	FILTER EMI DSS306-93B101MT05
FL508	EH-410420J	FILTER EMI DSS306-93B101MT05
FL509	EH-410420J	FILTER EMI DSS306-938101MT05
FL511	EH-404248J	FILTER EMI DSS310-54B 101M CUT
FL512	EH-404248J	FILTER EMI DSS310-54B 101M CUT
FS501	∆ EF-376821	FUSE ICP-N15 50V 0.6A
FS502	∆ EF-373143	FUSE ICP-N38 50V 1.5A
IC501	EI-388707J	IC HD74HC244P
IC502	EI-393696J	IC HD74HC86P
IC503	El-412279J1	IC PCM69AP-4
IC504	El-412279J1	IC PCM69AP-4
IC505	El-412279J1	IC PCM69AP-4
IC506	El-412279J1	IC PCM69AP-4
IC507	EI-348785	IC M5220L
IC508	El-348785	IC M5220L
IC509	EI-348785	IC M5220L
IC510	EI-348785	IC M5220L
IC511	El-348785	IC M5220L
IC512	El-348785	IC M5220L
IC513	El-348785	IC M5220L
IC514	EI-348785	IC M5220L
IC515	EI-393325N	IC M5218AP
IC516	EI-393325N	IC M5218AP
IC517	EI-393325N	IC M5218AP
IC518	EI-393325N	IC M5218AP
IC519	EI-379997J	IC YM3623B
IC521	El-410414J1	IC CS8402A-CP
IC522	El-377101	IC UPC7805HF
IC524	EI-810646J	IC MC74HCU04AN
IC525	EI-394832J	IC HD74HC123AP
J501	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT
J502	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT
J503	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT
J504	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT
J505	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT
J506	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT
J507	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT PHONE J 2P HLJ0520-110 W/NUT
J508	EJ-357159	PIN J YKC21-3045 2P
J509	EJ-430794J ER-324480	R CB H S10 FS RDS 1/4W 470J
R565 R566	ER-324480	R CB H S10 FS RDS 1/4W 470J
R567	ER-324480	R CB H S10 FS RDS 1/4W 470J
R568	ER-324480	R CB H S10 FS RDS 1/4W 470J
R569	ER-324480	R CB H S10 FS RDS 1/4W 470J
R570	ER-324480	R CB H S10 FS RDS 1/4W 470J
R571	ER-324480	R CB H S10 FS RDS 1/4W 470J
R572	ER-324480	8 CB H S10 FS RDS 1/4W 470J
T501	EO-414952J	TRANS PULSE CITO705D-35101
W501	EW-810423J	WIRE ASSY L4013 W401 34P
X501	EI-374176	OSC X'TALAT-51 16.9344MHZ
FL1	EH-810632J	FILTER EMITFC-16- 8-16
X San P	may be an expected.	- manufacture appears to proper the second s

#### 12. SMPTE (IB-M20T OPTIONAL P.C. BOARD)

Ref.No.	Part No.	Description
D801	ED-344280	D SILICON H GMA-01-FY2 F05
D802	ED-344280	D SILICON H GMA-01-FY2 F05
D803	ED-344280	D SILICON H GMA-01-FY2 F05
D804	ED-344280	D SILICON H GMA-01-FY2 F05
FL801	EH-429990J	FILTER EMI STB101KBA F05
FL802	EH-429990J	FILTER EMI STB101KBA F05
FL803	EH-429990J	FILTER EMI STB101KBA F05
IC801	El-430810J	IC ICS2008V
J801	EJ-810705J	PHONE J 3P HLJ0544-010W/N,W6.3
J802	EJ-810706J	PHONE J 3P HLJ0544-110W/N,W6.3
TR801	ET-349593	TR 2SA1348 F05

#### 13. FLASH MEMORY (FMX008M OPTIONAL P.C. BOARD)

Ref.No.	Part No.	Description
IC1	EI-396536J	IC HD74AC138P
IC6	El-432815J	IC E28F016SA-100
IC7	EI-432815J	IC E28F016SA-100
IC8	EI-432815J	IC E28F016SA-100
IC9	EI-432815J	IC E28F016SA-100
J1	EJ-432816J	SOCKET 128A-060S3B-L14N 60P
TR1	ET-370013	TR 2SA874 Q.R
TR2	ET-386938N	TRIOTC123ES Tos

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ED344280         3-D3         EH410420J         3-FL7         Ei393325N         11-IC518           ED344280         4-D5         EH410420J         3-FL8         Ei393695J         3-IC11           ED344280         7-D12         EH410420J         3-FL15         Ei393695J         11-IC502           ED344280         7-D13         EH410420J         3-FL15         Ei394832J         11-IC525           ED344280         7-D14         EH410420J         4-FL4         Ei396531J         3-IC17           ED344280         7-D15         EH410420J         4-FL5         Ei396536J         13-IC1           ED344280         7-D16         EH410420J         4-FL6         Ei396536J         3-IC17           ED344280         7-D17         EH410420J         11-FL501         Ei396531J         3-IC17           ED344280         7-D19         EH410420J         11-FL501         Ei396531J         3-IC12-B           ED344280         7-D21         EH410420J         11-FL506         Ei397348J         7-IC4-B           ED344280         7-D23         EH410420J         11-FL506         Ei397348J         7-IC4-B           ED344280         7-D25         EH410420J         11-FL508         EH40217J         3-IC8	EJ424423J EJ428182J EJ428927J EJ429927J EJ429929J EJ430686J EJ430794J EJ430794J EJ430794J EJ430794J EJ430794J EJ430794J EJ430794J EJ430794J EJ43084J EJ430624J EJ430624J EJ430624J EJ430624J EJ430624J EJ430624J EJ430705J	3-J6 3-J2 3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280         4-D5         EH410420J         3-FLB         El393695J         3-IC11           ED344280         7-D12         EH410420J         3-FL11         El393696J         11-IC502           ED344280         7-D13         EH410420J         3-FL15         El394832J         11-IC525           ED344280         7-D14         EH410420J         4-FL4         El396531J         3-IC17           ED344280         7-D15         EH410420J         4-FL5         El396536J         13-IC1           ED344280         7-D16         EH410420J         4-FL6         El396536J         3-X1           ED344280         7-D17         EH410420J         11-FL501         El397346J         7-IC4-B           ED344280         7-D19         EH410420J         11-FL506         El397346J         7-IC4-B           ED344280         7-D21         EH410420J         11-FL507         EI401213J         3-IC12-B           ED344280         7-D23         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D25         EH410420J         11-FL509         EI401217J         3-IC14           ED344280         7-D26         EH413150J         3-FL12         EI40527J         7-IC1 </td <td>EJ428182J EJ429927J EJ429927J EJ429929J EJ430687J EJ430689J EJ430794J EJ430956J EJ432816J EJ810388J EJ810389J EJ810624J EJ810624J EJ810624J EJ810705J</td> <td>3-J2 3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202</td>	EJ428182J EJ429927J EJ429927J EJ429929J EJ430687J EJ430689J EJ430794J EJ430956J EJ432816J EJ810388J EJ810389J EJ810624J EJ810624J EJ810624J EJ810705J	3-J2 3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280         4-D5         EH410420J         3-FLB         El393695J         3-IC11           ED344280         7-D12         EH410420J         3-FL11         El393696J         11-IC502           ED344280         7-D13         EH410420J         3-FL15         El394832J         11-IC525           ED344280         7-D14         EH410420J         4-FL4         El396531J         3-IC17           ED344280         7-D15         EH410420J         4-FL5         El396536J         13-IC1           ED344280         7-D16         EH410420J         4-FL6         El396536J         3-X1           ED344280         7-D17         EH410420J         11-FL501         El397346J         7-IC4-B           ED344280         7-D19         EH410420J         11-FL506         El397346J         7-IC4-B           ED344280         7-D21         EH410420J         11-FL507         EI401213J         3-IC12-B           ED344280         7-D23         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D25         EH410420J         11-FL509         EI401217J         3-IC14           ED344280         7-D26         EH413150J         3-FL12         EI40527J         7-IC1 </td <td>EJ428182J EJ429927J EJ429927J EJ429929J EJ430687J EJ430689J EJ430794J EJ430956J EJ432816J EJ810388J EJ810389J EJ810624J EJ810624J EJ810624J EJ810705J</td> <td>3-J2 3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202</td>	EJ428182J EJ429927J EJ429927J EJ429929J EJ430687J EJ430689J EJ430794J EJ430956J EJ432816J EJ810388J EJ810389J EJ810624J EJ810624J EJ810624J EJ810705J	3-J2 3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280         7-D12         EH410420J         3-FL11         EI393696J         11-IC502           ED344280         7-D13         EH410420J         3-FL15         EI394832J         11-IC502           ED344280         7-D14         EH410420J         4-FL4         EI396531J         3-IC17           ED344280         7-D15         EH410420J         4-FL5         EI396536J         13-IC1           ED344280         7-D16         EH410420J         4-FL6         EI396541J         3-X1           ED344280         7-D17         EH410420J         11-FL501         EI397346J         7-IC4-B           ED344280         7-D19         EH410420J         11-FL506         EI397346J         7-IC4-B           ED344280         7-D21         EH410420J         11-FL507         EI401213J         3-IC13           ED344280         7-D23         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D25         EH410420J         11-FL509         EI401217J         3-IC18           ED344280         7-D26         EH413150J         3-FL12         EI40577J         3-IC14           ED344280         7-D26         EH413150J         3-FL12         EI40577J         3-IC19 </td <td>EJ429927J EJ429927J EJ429929J EJ430687J EJ430689J EJ430794J EJ430956J EJ430956J EJ432816J EJ810389J EJ810418J EJ810624J EJ810624J EJ810705J</td> <td>3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202</td>	EJ429927J EJ429927J EJ429929J EJ430687J EJ430689J EJ430794J EJ430956J EJ430956J EJ432816J EJ810389J EJ810418J EJ810624J EJ810624J EJ810705J	3-P5 3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280         7-D13         EH410420J         3-FL15         El394832J         11-IC525           ED344280         7-D14         EH410420J         4-FL4         El396531J         3-IC17           ED344280         7-D15         EH410420J         4-FL5         El39653GJ         13-IC1           ED344280         7-D16         EH410420J         4-FL6         El396541J         3-X1           ED344280         7-D17         EH410420J         11-FL501         El397348J         7-IC4-B           ED344280         7-D19         EH410420J         11-FL506         El397346J         7-IC4-B           ED344280         7-D21         EH410420J         11-FL507         EI401213J         3-IC13           ED344280         7-D23         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D25         EH410420J         11-FL509         EI401217J         3-IC8           ED344280         7-D26         EH413150J         3-FL12         EI405572J         7-IC1           ED344280         7-D28         EH413150J         3-FL13         EI410414J1         11-IC521           ED344280         7-D30         EH413150J         3-FL14         EI410414J1         11-IC503	EJ429927J EJ429929J EJ430987J EJ430689J EJ430794J EJ430956J EJ430956J EJ4402816J EJ810389J EJ810418J EJ810624J EJ810624J EJ810624J EJ810705J	3-P6 3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280         7-D14         EH410420J         4-FL4         El396531J         3-IC17           ED344280         7-D15         EH410420J         4-FL5         El396536J         13-IC1           ED344280         7-D16         EH410420J         4-FL6         El396541J         3-X1           ED344280         7-D17         EH410420J         11-FL501         El397343J         3-IC12-B           ED344280         7-D19         EH410420J         11-FL506         El397346J         7-IC4-B           ED344280         7-D21         EH410420J         11-FL507         EI401213J         3-IC13           ED344280         7-D23         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D25         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D26         EH413150J         3-FL12         EI405872J         7-IC1           ED344280         7-D27         EH413150J         3-FL13         EI410389J         3-IC19           ED344280         7-D28         EH413150J         3-FL14         EI410414J1         11-IC501           ED344280         7-D30         EH413150J         3-FL17         EI412279J1         11-IC503	EJ429929J EJ430687J EJ430988J EJ430994J EJ430996J EJ402816J EJ810388J EJ810389J EJ810418J EJ810624J EJ810624J EJ810705J	3-P7 3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280 7-D15 EH410420J 4-FL5 El396S36J 13-IC1 ED344280 7-D16 EH410420J 4-FL6 El396S41,J 3-X1 ED344280 7-D17 EH410420J 11-FL501 El397348,J 3-IC12-B  ED344280 7-D19 EH410420J 11-FL506 EI397348,J 7-IC4-B ED344280 7-D21 EH410420J 11-FL507 EI401213,J 3-IC13 ED344280 7-D23 EH410420,J 11-FL508 EI401217,J 3-IC8 ED344280 7-D25 EH410420,J 11-FL509 EI401217,J 3-IC8 ED344280 7-D26 EH413150,J 3-FL12 EI405572,J 7-IC1 ED344280 7-D27 EH413150,J 3-FL12 EI405572,J 7-IC1 ED344280 7-D28 EH413150,J 3-FL14 EI410414,J1 11-IC521 ED344280 7-D29 EH413150,J 3-FL14 EI410414,J1 11-IC521 ED344280 7-D30 EH413150,J 3-FL17 EI412279,J1 4-IC8 ED344280 7-D31 EH413150,J 3-FL18 EI412279,J1 11-IC503 ED344280 7-D31 EH413150,J 3-FL19 EI412279,J1 11-IC504  ED344280 7-D32 EH413150,J 3-FL20 EI412279,J1 11-IC505 ED344280 7-D33 EH413150,J 3-FL20 EI412279,J1 11-IC505	EJ430687J EJ430698J EJ430794J EJ430794J EJ430956J EJ432816J EJ810388J EJ810388J EJ810624J EJ810624J EJ810705J EJ810706J	3-J4 3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280 7-D16 EH410420J 4-FL8 El396541J 3-X1 ED344280 7-D17 EH410420J 11-FL501 El397343J 3-IC12-B ED344280 7-D19 EH410420J 11-FL506 EI397348J 7-IC4-B ED344280 7-D21 EH410420J 11-FL507 EI401213J 3-IC13 ED344280 7-D23 EH410420J 11-FL508 EI401217J 3-IC8 ED344280 7-D25 EH410420J 11-FL509 EI401217J 3-IC8 ED344280 7-D26 EH413150J 3-FL12 EI405572J 7-IC1 ED344280 7-D26 EH413150J 3-FL13 EI410389J 3-IC19 ED344280 7-D28 EH413150J 3-FL13 EI410389J 3-IC19 ED344280 7-D28 EH413150J 3-FL14 EI410414J1 11-IC521 ED344280 7-D29 EH413150J 3-FL14 EI410414J1 11-IC521 ED344280 7-D30 EH413150J 3-FL18 EI412279J1 4-IC8 ED344280 7-D30 EH413150J 3-FL18 EI412279J1 11-IC503 ED344280 7-D31 EH413150J 3-FL19 EI412279J1 11-IC504 ED344280 7-D32 EH413150J 3-FL19 EI412279J1 11-IC505 ED344280 7-D32 EH413150J 3-FL20 EI412279J1 11-IC505 ED344280 7-D33 EH413150J 3-FL20 EI412279J1 11-IC505	EJ430689J EJ430794J EJ430956J EJ430956J EJ430956J EJ810389J EJ810389J EJ810424J EJ810624J EJ810624J EJ810705J	3-P3 11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
ED344280         7-D17         EH410420J         11-FL501         El397343J         3-IC12-B           ED344280         7-D19         EH410420J         11-FL506         El397346J         7-IC4-B           ED344280         7-D21         EH410420J         11-FL507         EI401213J         3-IC13           ED344280         7-D23         EH410420J         11-FL508         EI401217J         3-IC8           ED344280         7-D25         EH410420J         11-FL509         EI401217J         3-IC14           ED344280         7-D26         EH413150J         3-FL12         EI405572J         7-IC1           ED344280         7-D27         EH413150J         3-FL13         EI410389J         3-IC19           ED344280         7-D28         EH413150J         3-FL14         EI410414J1         11-IC521           ED344280         7-D29         EH413150J         3-FL17         EI412279J1         4-IC8           ED344280         7-D30         EH413150J         3-FL18         EI412279J1         11-IC503           ED344280         7-D31         EH413150J         3-FL19         EI412279J1         11-IC505           ED344280         7-D32         EH413150J         3-FL20         EI412279J1         11-IC	EJ430794J  EJ430956J EJ430956J EJ432816J EJ810388J EJ810418J EJ810624J EJ810624J EJ810705J	11-J509 3-J1 3-J3 13-J1 3-J7 3-P2 6-P3 4-J201 4-J202
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ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AMP (Amp)	AMPlifier	MINI	MiNimum
BBD	Backet Brigade Diode	MIX	MiXer
BCD	Binary Code Decimal	MOD	MODulation / MODulator
B.DOWN	Brake DOWN	M.WHEEL	Modulation WHEEL
B.UP	Back UP	osc	OSCillator
CE	Chip Enable	PLD	Programmable Logic Device
CH	CHannel	RAM	RandomAccess Memory
COMP	COMParator	RD	ReaD
CONT	CONTrol	REG	REGulator
CA	Control Voltage	RESO	RESOnance
D/A	Digital to Analogue	RL	ReLay
DIR	DIRectory	ROM	Read Only Memory
DMA	Direct Memory Access	scsi	Small Computer System Interface
DSP	Digital Signal Processor	S/H	Sample and Hold
EG	Envelope Generator	SIMM	Single Inline Memory Module
EXT	EXTernal	SMPTE	Society of Mation Picture & Television
FREQ	FREQuency		Engineers
HPF	High Pass Filter	SW	SWitch
INH	1NHibit	THRU	THRoUgh
INT	INTerrupt	TRANS	TRANSpose
INV	INVerter	u	Upper
L	Lower	VA	Voltage Analog
LAN	Local Area Network	VCA	Voltage Controlled Amplifier
LFO	Low Frequency Oscillator	VCF	Voltage Controlled Filter
MAX	MAXimum	VR	Variable Resistor
MEMO	MEMOry	VREF	REFerence Voltage
MIDI	Musical Instrument Digital Interface	WR	WRite

# AKAI ELECTRIC CO., LTD.

# ELECTRONIC MUSICAL INSTRUMENT DIV.

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